



18379 U.S. PTO

17548 U.S. PTO
10/763909



BACKGROUND OF THE INVENTION

The present invention relates to a system for and a method of stopping and extinguishing forest fires.

It is known to stop and extinguish forest fires by removing vegetation, in particular forest trees over large areas so that fire can not propagate from the area in which it is occurring to a new area. It is also known to apply anti-fire substances straight onto a corresponding areas, for example anti-fire foam and the like. It is believed that the existing systems and methods can be further improved.

The PTO did not receive the following
listed item(s) Sheet of Transmittal

BE IT KNOWN that I, **Valery CHUPRIN**, have invented certain
new and useful improvements in

**SYSTEM FOR AND METHOD OF STOPPING AND EXTINGUISHING
FOREST FIRES**

of which the following is a complete specification:

*This application is
qualified as small entity.
If fee is missing or
insufficient delay to
26-0085.*

*Valery Chuprin
R.N. 28563*

SUMMARY OF THE INVENTION

Accordingly, it is an object of the present invention to provide a system for and a method of stopping and extinguishing of forest fires, which are further improvements of the existing systems and methods.

In keeping with these objects, one feature of the present invention resides, briefly stated, in a method of stopping and extinguishing forest fires which includes the steps of erecting a substantially vertical wall; and making the wall of a fire-resistant material so that when a forest fire reaches the wall it can be stopped and/or extinguished.

It is also another feature of the present invention to provide a system for stopping and extinguishing forest fires which includes a substantially vertical wall made of a fire-resistant material so that when a forest fire reaches the wall it can be stopped and/or extinguished.

When the method is performed and the system is designed in accordance with the present invention, it provides efficient stopping and extinguishing of forest fires.

The novel features which are considered as characteristic for the present invention are set forth in particular in the appended claims. The invention itself, however, both as to its construction and its method of operation, together with additional objects and advantages thereof, will be best understood from the following description of specific embodiments when read in connection with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a perspective view showing a system for stopping and extinguishing forest fires in accordance with the present invention;

Figure 2 is a view showing an erectable wall of the system in accordance with the present invention in its original condition as a roll;

Figure 3 is a view showing a terrain on which the inventive system is implemented; and

Figure 4 is a view showing a further embodiment of the inventive system.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

As shown in Figure 1, a system for stopping and extinguishing forest fires which implements a method for stopping and extinguishing forest fires in accordance with the present invention includes a wall which is identified as a whole with reference numeral 1. The wall 1 is formed as a substantially vertical wall composed of a fire-resistant or a fire-proof material. The wall 1 can be composed of fire-proof fabric which is known in the art in various modifications, for example of a fire proof material which is used as uniforms for firemen, etc. It can be also composed of a material coated with a fireproof coating of various compositions, which are also well known in the art.

The system further includes a plurality of supports which are identified with reference numeral 2. The supports are placed on a ground at certain distances from one another along a prospective wall, and then the wall is attached to the supports. The attachment can be performed by known means. For example the vertical leg of the supports 2 can be provided with hooks and the wall 1 can be provided with loops which are fitted onto the hooks. Of course, other connecting concepts are possible as well.

When the wall 1 is erected substantially vertically across a terrain, then when a fire approaches the wall, due to fire-resistant nature of the wall, the fire can be stopped and extinguished.

In accordance with an additional feature of the present invention, an anti-fire substance, for example an anti-fire foam is applied behind the wall 1, for example on vegetation, such as on forest trees, as identified with reference numeral 3. It is possible in accordance with the present invention to first fall or cut the trees so that they fall on the ground and then to apply the foam 3 on them.

Figure 2 is a view showing an initial stage of erecting the wall 1. Initially, the wall 1 is formed as a roll of the fire-resistant material as identified with reference numeral 4. The roll is placed along a corresponding line in the forest, then the supports 2 are installed, and then the roll 4 is unrolled so as to form the wall 1 and to attach it to the supports 2. This approach provides a portable construction which is easy to transport. The supports 2 together with the rolled wall 1 in the form of the roll 4 are convenient to transport to any location.

The wall can be of any shape or trajectory. As shown in Figure 1, the wall 1 is installed in a curved fashion to protect a settlement 5 located

behind the lake 6, at the rear side of the wall. In order to install the wall a road or a trench 8 can be made between the trees in the forest, and then the wall 1 in the form of the roll 4 is placed on the road or in the trench and unrolled and attached to the supports 2.

In accordance with a further feature of the present invention as shown in Figure 4, a plurality of walls composed of fire-resistant material can be installed, as identified with reference numerals 1, 1', 1". In this case, the system includes several echelons of fire protection. If the first wall does not completely stop and extinguish the fire, then the second wall will, etc. The anti-fire foam 3 can be applied in the areas behind each of the walls 1, 1', 1".

When the system is designed and the method is performed in accordance with the present invention, it provides an efficient way to stop and extinguish forest fires.

It will be understood that each of the elements described above, or two or more together, may also find a useful application in other types of constructions differing from the types described above.

While the invention has been illustrated and described as embodied in system for and method of stopping and extinguishing of forest

fires, it is not intended to be limited to the details shown, since various modifications and structural changes may be made without departing in any way from the spirit of the present invention.

Without further analysis, the foregoing will so fully reveal the gist of the present invention that others can, by applying current knowledge, readily adapt it for various applications without omitting features that, from the standpoint of prior art, fairly constitute essential characteristics of the generic or specific aspects of this invention.

What is claimed as new and desired to be protected by Letters Patent is set forth in the appended claims.